

## 4 OBJECTIVES OF THE ENNIS CREEK SEDIMENT INVESTIGATION

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EPA collected eight sediments samples from Ennis Creek as part of the ESI (E&E 1998) and found levels of chemicals to be similar between samples collected on the mill site and at upgradient locations. Additional evaluation of the ESI data is presented in the Work Plan (Section 3.1.3, Volume I) and showed that levels of chemicals were below levels that would be detrimental to the freshwater or marine environments.

Furthermore, a recent interim action resulted in the removal of 1,248 tons of TPH and PCB-affected soil/sediment from the western bank and streambed of Ennis Creek adjacent to the finishing room located near the mouth of Ennis Creek (see Section 3.1.1.1, Volume I).

The Tribe asked that sediments of Ennis Creek be further characterized. The objective of the SAP for Ennis Creek sediment at the Rayonier mill site is to verify and further characterize the acceptable nature of the sediment quality determined during the 1998 EPA study (E&E 1998).

Sediment samples will be collected from a single location on Ennis Creek upstream of the Ennis Creek-Finishing Room interim action completed in 2002 (Figure 4-1). A surface sediment (0-10 cm below sediment surface) and a subsurface sediment (10 – 30 cm below sediment surface) sample will be collected from this location. Sediment samples will be analyzed for the presence of chemicals utilizing the following EPA-approved laboratory methodologies:

- Metals (EPA Method 6020)
- PAHs (EPA Method 8270C)
- Dioxins/furans (17 congeners) (EPA Method 1613B)

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◆ Planned sampling location

Scale in Feet  
0 400



Vicinity Map

**Figure 4-1.** Planned Sediment Sampling Location on Ennis Creek.